

**CLAIMS****What is claimed is:**

- 5      1. A magnetic core having linear B-H characteristic which does not change with  
the level of magnetic fields applied and the frequency used.
2. A magnetic core as recited by claim 1, consisting essentially of an amorphous  
iron-based alloy having saturation induction of at least about about 10 kG (1  
tesla).
- 10     3. A magnetic core as recited by claim 2, wherein said alloy is slit into ribbon  
and wound to produce said core.
4. A magnetic core as recited by claim 3, having a configuration selected from  
the group consisting of toroidal, square, rectangular, and triangular shapes.
5. An inductor comprising a magnetic core as recited by claim 4, having a copper  
15     winding.
6. An inductor as recited by claim 5, further comprising an additional copper  
wire winding on said core.
7. An inductor as recited by claim 5, further comprising an additional copper  
wire inserted into a hollow geometrically center section of said core.
- 20     8. A current transformer comprising the inductor of claim 6, wherein the  
additional wire carries an electrical current to be monitored or measured with  
accuracy.
9. A current transformer comprising the inductor of claim 7, wherein the  
additional wire carries an electrical current to be monitored or measured with  
accuracy.
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10. A current transformer, as recited by claim 8, having an output voltage adapted for measurement by a voltmeter for accurate measurement of the electrical current in said additional wire.
11. A current transformer, as recited by claim 9, having an output voltage adapted for measurement by a voltmeter for accurate measurement of the electrical current in said additional wire.  
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